

APPENDIX B
UPPER WILLIAMS ALTERNATIVE DESCRIPTIONS

Table 1: Unit by Unit Comparison of Alternatives – Commercial Timber Harvest

BA = basal area

dbh = diameter at breast height

H = herbicide use

P = planting

Rx Fire = prescribed fire

SP = site preparation

OSR = overstory removal

VC = vine control

PC = Patch Cut

Alternative B (Proposed Action Description)				Descriptions Compared to Alternative B			
Unit	Acres	Logging System	Silvicultural Prescription	Alternative C	Alternative D	Alternative E	Alternative F
1	111	H	Thinning	Same as Alt B	Same as Alt B	Same as Alt B	
2	18	H	CC (H, SP, P)	Same as Alt B	Same as Alt B	Thinning – Retain 60-90 square feet BA/ac	
3	22	C	TA (H, SP)	helicopter log 17 acres			
4	18	C	TA (SP)	helicopter log 15 acres			
5	21	H	CC (H, SP, P)	Same as Alt B			
6	25	H	TA (H, SP)	Same as Alt B			
7	65	H	Thinning	Same as Alt B		Same as Alt B	
8	24	H	Thinning	Same as Alt B		Same as Alt B	
9	25	H	TA (Rx Fire, SP)	Same as Alt B	Same as Alt B	Thinning – Retain 90-120 square feet of BA/ac.	Same as Alt B
10	25	H	Thinning	Reduce to 8 acres thin	Same as Alt B	Same as Alt B	Same as Alt B
11	22	H	TA (H, SP)		Same as Alt B	Thinning – Retain 60-90 square feet BA/ac	Same as Alt B
12	31	H	Thinning	Same as Alt B	Same as Alt B		Same as Alt B
13	20	H	TA (H, SP)	Same as Alt B	Same as Alt B		Same as Alt B
14	100	H	Thinning	Same as Alt B	Same as Alt B		Same as Alt B
15	22	H	TA (H, SP)	Same as Alt B	Same as Alt B		Same as Alt B
16	68	H	Thinning	Same as Alt B	Same as Alt B		Same as Alt B
17	24	H	TA (SP, VC)		Same as Alt B		
18	15	H	OSR		Same as Alt B	Thinning – Retain 50-70	

Alternative B (Proposed Action Description)				Descriptions Compared to Alternative B			
Unit	Acres	Logging System	Silvicultural Prescription	Alternative C	Alternative D	Alternative E	Alternative F
						square feet BA/ac of overstory Conventional logging	
19	10	H	OSR		Same as Alt B	Thinning – Retain 50-70 square feet BA/ac overstory Conventional logging	
20	24	H	CC (H, SP VC)	Conventional logging	Same as Alt B		Same as Alt B
21	57	C	OSR	Same as Alt B	Same as Alt B Helicopter logging	Thinning – Retain 50-70 square feet BA/ac overstory	Same as Alt B. Helicopter logging
22	20	C	CC (H, SP)				
23	15	C	CC (H, SP)	Same as Alt B	Helicopter logging	Thin stand with portions of Unit 24 81 acres total	Helicopter logging
24	22	C	CC (H, SP)	Same as Alt B	Helicopter logging	retain 60-90 square feet BA/ac	Helicopter logging
25	52	C	Thinning	Same as Alt B	Helicopter logging		Helicopter logging
26	31	C	Thinning	Same as Alt B	Helicopter logging (25 acres)	Same as Alt B	Helicopter logging (31 acres)
27	180	H	Thinning	Same as Alt B	Same as Alt B	Drop stand 2 125 acres	
28	25	H	CC (H, SP, P)	Same as Alt B	Same as Alt B	Thinning – Retain 60-90 square feet BA/ac	
29	25	H	TA (H, SP)	Same as Alt B	Same as Alt B	Thinning – Retain 60-90 square feet BA/ac	Same as Alt B
30	10	H	Thinning	Same as Alt B	Same as Alt B	Same as Alt B	Same as Alt B
31	61	H	Thinning	Same as Alt B	Same as Alt B	Same as Alt B	Same as Alt B
32	25	H	CC (H, SP, P)	Two-aged – Retain 25-30 square feet BA/ac (H,	Same as Alt B	Thinning – Retain 50-70 square feet BA/ac	Same as Alt B

Alternative B (Proposed Action Description)				Descriptions Compared to Alternative B			
Unit	Acres	Logging System	Silvicultural Prescription	Alternative C	Alternative D	Alternative E	Alternative F
				SP, P)			
33	19	H	Thinning	Same as Alt B	Same as Alt B	Same as Alt B	Same as Alt B
34	25	H	TA (H, SP, VC)	Same as Alt B	Same as Alt B	Thinning – Retain 50-70 square feet BA/ac	Same as Alt B
35	25	C	TA (H, SP)	Same as Alt B	Helicopter logging		
36	20	C	CC (Rx Fire, SP)	Same as Alt B	Helicopter logging		Same as Alt B
37	25	H	TA (SP)		Same as Alt B		
38	28	H	Thinning		Same as Alt B	Thin 53 acres	
39	55	H	Thinning		Same as Alt B	Same as Alt B	
40	25	H	TA (H, SP)		Same as Alt B		
41	25	H	TA (SP)	Conventional log – add acres from st. 59	Same as Alt B		
42	45	H	Thinning	conventional log 25 acres	Same as Alt B		
43	17	H	Thinning	Conventional log	Same as Alt B		
44	13	H	TA (H, SP)		Same as Alt B	Thinning – Retain 60-90 square feet BA/ac	
45	58	H	Thinning	Conventional log	Same as Alt B	Same as Alt B	Same as Alt B
46	60	H	Thinning	Conventional log	Same as Alt B	Same as Alt B	Same as Alt B
47	24	H	Thinning	Conventional log	Same as Alt B		Same as Alt B
48	17	H	Thinning	Conventional log	Same as Alt B		
49	25	H	TA (Rx Fire, SP)	Conventional log 12 ac	Same as Alt B	Thinning – Retain 60-90 square feet BA/ac	Same as Alt B
50	13	H	Thinning		Same as	Same as Alt	Same as

Alternative B (Proposed Action Description)				Descriptions Compared to Alternative B			
Unit	Acres	Logging System	Silvicultural Prescription	Alternative C	Alternative D	Alternative E	Alternative F
					Alt B	B	Alt B
51	19	H	Thinning	Conventional log	Same as Alt B	Same as Alt B	Same as Alt B
52	25	H	CC (H, SP, VC)	Conventional log	Same as Alt B	Thinning – Retain 60-90 square feet BA/ac	Same as Alt B
53	17	H	Thinning	Conventional log	Same as Alt B		Same as Alt B
54	29	H	Thinning	Conventional log	Same as Alt B	Same as Alt B	Same as Alt B
55	16	H	Thinning	Conventional log	Same as Alt B	Same as Alt B	Same as Alt B
56	12	H	Thinning	Conventional log	Same as Alt B	Same as Alt B	Same as Alt B
57	16	H	Thinning	Conventional log	Same as Alt B	Same as Alt B	Same as Alt B
58	25	H	TA (SP)	Conventional log	Same as Alt B	Thinning – Retain 60-90 square feet BA/ac	Same as Alt B
59	12	H	Thinning	Conventional log	Same as Alt B	Same as Alt B	Same as Alt B
60	21	H	Thinning	Conventional log	Same as Alt B		
61	28	H	Thinning	Conventional log	Same as Alt B		
62	31	H	Thinning	Conventional log 38 ac	Same as Alt B		
63	12	C	CC (Rx Fire, SP, P)	Conventional log	Helicopter logging		Same as Alt B
64	8	C	TA (Rx Fire, SP, VC)	Conventional log			Same as Alt B
65	60	H	Thinning-PC		Same as Alt B	Same as Alt B	Same as Alt B
66	19	H	Thinning-PC		Same as Alt B		
67	27	H	Thinning		Same as		Same as

Alternative B (Proposed Action Description)				Descriptions Compared to Alternative B			
Unit	Acres	Logging System	Silvicultural Prescription	Alternative C	Alternative D	Alternative E	Alternative F
					Alt B		Alt B
68	107	H	Thinning	Conventional log	Same as Alt B		Same as Alt B
69	25	H	CC (Rx fire, SP)	Conventional log	Same as Alt B		Same as Alt B
70	14	H	TA (SP)	Conventional log	Same as Alt B		Same as Alt B

Table 2: Unit by Unit Comparison of Alternatives – Insect and Disease Vegetation Treatments

Alternative B (Proposed Action Description)					Alternative Descriptions Compared to Alternative B	
Unit	Comp	Stand	Activity Acres	Silvicultural Treatment	Alternatives C, D & E	Alternative F
D	18	2	43	Cut/girdle/spray/inject beech trees with herbicide in stands infected with beech bark disease.	Same as B	
D	18	6	13	Cut/girdle/spray/inject beech trees with herbicide in stands infected with beech bark disease.	Same as B	
J	24	33	193	Cut/girdle/spray/inject beech trees with herbicide in stands infected with beech bark disease.	Same as B	
AS	28	21	37	Cut/girdle/spray/inject beech trees with herbicide in stands infected with beech bark disease.	Same as B	
AT	28	66	16	Cut/girdle/spray/inject beech trees with herbicide in stands infected with beech bark disease.	Same as B	

Table 3: Road by Road Comparison of Alternatives – Road System

Alternative B (Proposed Action Description)			Alternative Descriptions Compared to Alternative B			
Road Number	Length (Miles)	Proposed Long Range Plan	Alternative C	Alternative D	Alternative E	Alternative F
FR 86	3.0	Maintain	Same as B	Same as B	Same as B	Same as B
FR 115	3.7	Maintain	Same as B	Maintain 2.8 mi Decommission 0.9 mi	Same as B	Same as B
FR 115A	1.3	Recon./storage	Same as B	Decommission	Same as B	Storage
FR 216	9.5	Maintain	Same as B	Same as B	Same as B	Same as B
FR 437	3.2	Maintain	Same as B	Same as B	Same as B	Same as B
FR437A	1.4	Recon./storage	Same as B	Recon. 0.9 mi Storage 0.9 mi Decommission 0.5 mi	Recon. 0.9 mi Storage 1.4 mi	Recon. 0.9 mi Storage 1.4 mi
FR 438	1.2	Recon./maintain	Same as B	Same as B	Maintain	Same as B
FR 461	5.3	Maintain	Same as B	Same as B	Same as B	Same as B
FR 889	0.8	Recon./storage	Decommission	Decommission	Recon. 0.2 mi Storage 0.8 mi	Recon. 0.2 mi Storage 0.8 mi
FR 999	3.4	Maintain	Same as B	Same as B	Same as B	Same as B
FR999A	1.1	Recon./storage	Same as B	Same as B	Same as B	Same as B
FR999B	0.8	Recon./storage	Same as B	Decommission	Storage	Same as B
FR 1101	0.3	Maintain	Same as B	Same as B	Same as B	Same as B
FR 216A	0.9	Recon./storage	Maintain	Same as B	Same as B	Maintain
M 171	0.2	Recon./storage	Same as B	Same as B	Same as B	Maintain

Alternative B (Proposed Action Description)			Alternative Descriptions Compared to Alternative B			
Road Number	Length (Miles)	Proposed Long Range Plan	Alternative C	Alternative D	Alternative E	Alternative F
FR 1796	1.2	Maintain	Same as B	Same as B	Same as B	Same as B
FR 1797	3.9	Recon. 2.0 mi Storage 2.0 mi Decommission 1.9 mi	Same as B	Recon. 0.2 mi Storage 0.2 mi Decommission 3.7 mi	Same as B	Same as B
M135	1.4	Recon. 0.9 mi Storage 0.9 mi Decommission 0.5 mi	Recon. 1.2 mi Storage 1.2 mi Decommission 0.2 mi	Recon. 0.8 mi Storage 0.8 mi Decommission 0.6 mi	Storage 0.9 mi Decommission 0.5 mi	Same as B
M136	1.7	Recon. 0.5 mi Storage 0.5 mi Decommission 1.2 mi	Same as B	Same as B	Same as B	Same as B
M143	0.5	Recon./storage	Same as B	Same as B	Same as B	Same as B
M169	0.7	Recon./storage	Maintain	Maintain	Maintain	Maintain
WR26	0.3	Maintain	Recon./storage	Maintain	Maintain	Maintain
WR34	0.2	Maintain	Recon./storage	Maintain	Maintain	Maintain

Table 4: Alternative B Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
1	111	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) on 30 acres and 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) on remaining 81 acres of primarily mast-producing species.
2	18	H	Clearcut (H, SP, P)	Plant a component of northern red oak and disease-resistant American chestnut.
3	22	C	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
4	18	C	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
5	21	H	Clearcut (H, SP, P)	Plant a component of northern red oak and disease-resistant American chestnut.
6	25	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
7	65	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
8	24	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
9	25	H	Two-Age (Rx Fire, SP)	Prescribed fire to enhance oak regeneration. Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
10	25	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
11	22	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
12	31	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
13	20	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
14	100	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
15	22	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
16	68	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
17	24	H	Two-Age (SP, VC)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
18	15	H	OSR	Retain 20-40 square feet of BA/ac (about 15-50 trees/acre) of good quality 8" - 16" dbh trees.
19	10	H	OSR	Retain 20-40 square feet of BA/ac (about 15-50 trees/acre) of good quality 8" - 16" dbh trees.
20	24	H	Clearcut (H, SP VC)	No additional comments.
21	57	C	OSR	Retain 20-40 square feet of BA/ac (about 15-50 trees/acre) of good quality 8" - 16" dbh trees.
22	20	C	Clearcut (H, SP)	No additional comments.
23	15	C	Clearcut (H, SP)	No additional comments.
24	22	C	Clearcut (H, SP)	No additional comments.
25	52	C	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
26	31	C	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species

Table 4 (cont.): Alternative B Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
27	180	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) on 80 acres and 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) on 100 acres of primarily mast-producing species.
28	25	H	Clearcut (H, SP, P)	Plant a component of northern red oak and disease-resistant American chestnut.
29	25	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
30	10	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
31	61	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
32	25	H	Clearcut (H, SP, P)	Plant a component of northern red oak and disease-resistant American chestnut.
33	19	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
34	25	H	Two-Age (H, SP, VC)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
35	25	C	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
36	20	C	Clearcut (Rx Fire, SP)	Prescribed fire to enhance oak regeneration.
37	25	H	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
38	28	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
39	55	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
40	25	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
41	25	H	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
42	45	H	Thinning	Retain 90-120 BA (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
43	17	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
44	13	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
45	58	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
46	60	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
47	24	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
48	17	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
49	25	H	Two-Age (Rx Fire, SP)	Prescribed fire to enhance oak regeneration. Retain 15-20 BA (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
50	13	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
51	19	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.

Table 4 (cont.): Alternative B Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
52	25	H	Clearcut (H, SP, VC)	No additional comments.
53	17	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
54	29	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
55	16	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
56	12	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
57	16	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
58	25	H	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
59	12	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
60	21	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
61	28	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
62	31	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
63	12	C	Clearcut (Rx Fire, SP, P)	Prescribed fire to enhance oak regeneration. Plant a component of northern red oak and disease-resistant American chestnut.
64	8	C	Two-Age (Rx Fire, SP, VC)	Prescribed fire to enhance oak regeneration. Retain 15-20 BA (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
65	60	H	Thinning- PC	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6"-22" dbh trees) of primarily mast producing species with scattered patch cuts of varying size (≈0.125 to 0.5 acres each).
66	19	H	Thinning- PC	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6"-22" dbh trees) of primarily mast producing species with scattered patch cuts of varying size (≈0.125 to 0.5 acres each).
67	27	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
68	107	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
69	25	H	Clearcut (Rx Fire, SP)	Prescribed fire to enhance oak regeneration.
70	14	H	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.

BA = basal area

dbh = diameter at breast height

H = herbicide use

P = planting

Rx Fire = prescribed fire

SP = site preparation

OSR = overstory removal

VC = vine control

Table 5: Alternative B Insect and Disease Vegetation Treatments

Unit	Acres	Silvicultural Prescription
D	56	Treat Beech Bark Disease
J	193	Treat Beech Bark Disease
AS	37	Treat Beech Bark Disease
AT	16	Treat Beech Bark Disease

Table 6: Alternative C Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
1	111	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) on 30 acres and 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) on remaining 81 acres of primarily mast-producing species.
2	18	H	Clearcut (H, SP, P)	Plant a component of northern red oak and disease-resistant American chestnut (if available).
3	17	C	Two-Age (H, SP)	Retain 20-25 square feet of BA/ac (about 12-35 trees/acre) of good quality 8" - 16" dbh trees.
4	15	C	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
5	21	H	Clearcut (H, SP, P)	Plant a component of northern red oak and disease-resistant American chestnut (if available).
6	25	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
7	65	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
8	24	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
9	25	H	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
10	8	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
12	31	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
13	20	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
14	100	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
15	22	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
16	68	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
20	24	C	Clearcut (H, SP VC)	No additional comments.
21	57	C	OSR	Retain 20-40 square feet of BA/ac (about 15-50 trees/acre) of good quality 8" - 16" dbh trees.
23	15	C	Clearcut (H, SP)	No additional comments.
24	22	C	Clearcut (H, SP)	No additional comments.
25	52	C	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
26	31	C	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
27	180	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) on 80 acres and 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) on 100 acres of primarily mast-producing species.
28	25	H	Clearcut (H, SP, P)	Plant a component of northern red oak and disease-resistant American chestnut (if available).

Table 6 (cont.): Alternative C Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
29	25	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
30	10	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
31	61	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
32	25	H	Two-Age (H, SP,)	Retain 25-30 square feet of BA.ac (about 15-40 trees/acre) of good quality 8" - 16" dbh trees.
33	19	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
34	25	H	Two-Age (H, SP, VC)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
35	25	C	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
36	20	C	Clearcut (Rx Fire, SP)	Prescribed fire to enhance oak regeneration.
41	25	C	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
42	25	C	Thinning	Retain 90-120 BA (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
43	17	C	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
45	58	C	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
46	60	C	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
47	24	C	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
48	17	C	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
49	12	C	Two-Age (Rx Fire, SP)	Prescribed fire to enhance oak regeneration. Retain 15-20 BA (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
51	19	C	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
52	25	C	Clearcut (H, SP, VC)	No additional comments.
53	17	C	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
54	29	C	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
55	16	C	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
56	12	C	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
57	16	C	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
58	25	C	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
59	12	C	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
60	21	C	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species

Table 6 (cont.): Alternative C Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
61	28	C	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
62	38	C	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
63	12	C	Clearcut (Rx Fire, SP, P)	Prescribed fire to enhance oak regeneration. Plant a component of northern red oak and disease-resistant American chestnut (if available).
64	8	C	Two-Age (Rx Fire, SP, VC)	Prescribed fire to enhance oak regeneration. Retain 15-20 BA (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
68	107	C	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
69	25	C	Clearcut (Rx Fire, SP)	Prescribed fire to enhance oak regeneration.
70	14	C	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.

BA = basal area

dbh = diameter at breast height

H = herbicide use

P = planting

Rx Fire = prescribed fire

SP = site preparation

OSR = overstory removal

VC = vine control

Table 7: Alternative C Insect and Disease Vegetation Treatments

Unit	Acres	Silvicultural Prescription
D	56	Treat Beech Bark Disease
J	193	Treat Beech Bark Disease
AS	37	Treat Beech Bark Disease
AT	16	Treat Beech Bark Disease

Table 8: Alternative D Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
1	111	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) on 30 acres and 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) on remaining 81 acres of primarily mast-producing species.
2	18	H	Clearcut (H, SP, P)	Plant a component of northern red oak and disease-resistant American chestnut.
9	25	H	Two-Age (Rx Fire, SP)	Prescribed burn to enhance oak regeneration. Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
10	25	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
11	22	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
12	31	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
13	20	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
14	100	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
15	22	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
16	68	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
17	24	H	Two-Age (SP, VC)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
18	15	H	OSR	Retain 20-40 square feet of BA/ac (about 15-50 trees/acre) of good quality 8" - 16" dbh trees.
19	10	H	OSR	Retain 20-40 square feet of BA/ac (about 15-50 trees/acre) of good quality 8" - 16" dbh trees.
20	24	H	Clearcut (H, SP VC)	No additional comments.
21	57	H	OSR	Retain 20-40 square feet of BA/ac (about 15-50 trees/acre) of good quality 8" - 16" dbh trees.
23	15	H	Clearcut (H, SP)	No additional comments.
24	22	H	Clearcut (H, SP)	No additional comments.
25	52	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
26	22	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
27	180	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) on 80 acres and 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) on 100 acres of primarily mast-producing species.
28	25	H	Clearcut (H, SP, P)	Plant a component of northern red oak and disease-resistant American chestnut.
29	25	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
30	10	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
31	61	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.

Table 8 (cont.): Alternative D Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
32	25	H	Clearcut (H, SP, P)	Plant a component of northern red oak and disease-resistant American chestnut.
33	19	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
34	25	H	Two-Age (H, SP, VC)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
35	25	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
36	20	H	Clearcut (Rx Fire, SP)	Prescribed burn to enhance oak regeneration.
37	25	H	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
38	28	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
39	55	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
40	25	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
41	25	H	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
42	45	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
43	17	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
44	13	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
45	58	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
46	60	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
47	24	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
48	17	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
49	25	H	Two-Age (Rx Fire, SP)	Prescribed burn to enhance oak regeneration. Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
50	13	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
51	19	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
52	25	H	Clearcut (H, SP, VC)	No additional comments.
53	17	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
54	29	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
55	16	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
56	12	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
57	16	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
58	25	H	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.

Table 8 (cont.): Alternative D Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
59	12	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
60	21	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
61	28	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
62	40	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
63	12	H	Clearcut (Rx Fire, SP, P)	Prescribed burn to enhance oak regeneration. Plant a component of northern red oak and disease-resistant American chestnut.
65	60	H	Thinning- PC	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6"-22" dbh trees) of primarily mast producing species with scattered patch cuts of varying size (≈ 0.125 to 0.5 acres each).
66	19	H	Thinning- PC	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6"-22" dbh trees) of primarily mast producing species with scattered patch cuts of varying size (≈ 0.125 to 0.5 acres each).
67	27	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
68	107	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
69	25	H	Clearcut (Rx Fire, SP)	Prescribed burn to enhance oak regeneration.
70	14	H	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.

BA = basal area

dbh = diameter at breast height

H = herbicide use

P = planting

Rx Fire = prescribed fire

SP = site preparation

OSR = overstory removal

VC = vine control

PC = Patch Cut

Table 9: Alternative D Insect and Disease Vegetation Treatments

Unit	Acres	Silvicultural Prescription
D	56	Treat Beech Bark Disease
J	193	Treat Beech Bark Disease
AS	37	Treat Beech Bark Disease
AT	16	Treat Beech Bark Disease

Table 10: Alternative E Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
1	111	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh) on 30 acres and 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh) on remaining 81 acres of primarily mast-producing species.
2	18	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh)
7	65	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
8	24	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
9	25	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh)
10	25	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
11	22	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh)
18	15	C	Thinning	Retain 50-70 square feet of BA/ac (about 40-90 trees/acre of 8" to 16" dbh)

Table 10 (cont.): Alternative E Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
19	10	C	Thinning	Retain 50-70 square feet of BA/ac (about 40-90 trees/acre of 8" to 16" dbh)
21	57	C	Thinning	Retain 50-70 square feet of BA/ac (about 40-90 trees/acre of 8" to 16" dbh)
24	81	C	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh)
26	31	C	Thinning	Retain 90-120 BA (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
27	125	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) on 20 acres and 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) on 105 acres of primarily mast-producing species.
28	25	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh).
29	25	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh).
30	10	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
31	61	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
32	25	H	Thinning	Retain 50-70 square feet of BA/ac (about 40-90 trees/acre of 8" to 16" dbh)
33	19	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
34	25	H	Thinning	Retain 50-70 square feet of BA/ac (about 40-90 trees/acre of 8" to 16" dbh)
38	28	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
39	55	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
44	13	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh).
45	58	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
46	60	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
49	25	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh).
50	13	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
51	19	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
52	25	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh).
54	29	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
55	16	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
56	12	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.

Table10 (cont.): Alternative E Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
57	16	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
58	25	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh).
59	12	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
65	60	H	Thinning- PC	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6"-22" dbh trees) of primarily mast producing species with scattered patch cuts of varying size (≈0.125 to 0.5 acres each).

BA = basal area

dbh = diameter at breast height

H = herbicide use

P = planting

Rx Fire = prescribed fire

SP = site preparation

OSR = overstory removal

VC = vine control

PC = Patch Cut

Table 11: Alternative E Insect and Disease Vegetation Treatments

Unit	Acres	Silvicultural Prescription
D	56	Treat Beech Bark Disease
J	193	Treat Beech Bark Disease
AS	37	Treat Beech Bark Disease
AT	16	Treat Beech Bark Disease

Table 12: Alternative F Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
9	25	H	Two-Age (Rx Fire, SP)	Prescribed burn to enhance oak regeneration. Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
10	25	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
11	22	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
12	31	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
13	20	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
14	100	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
15	22	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
16	68	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
20	24	H	Clearcut (H, SP VC)	No additional comments.
21	57	H	OSR	Retain 20-40 square feet of BA/ac (about 15-50 trees/acre) of good quality 8" - 16" dbh trees.
23	15	H	Clearcut (H, SP)	No additional comments.
24	22	H	Clearcut (H, SP)	No additional comments.
25	52	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
26	31	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species
29	25	H	Two-Age (H, SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
30	10	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
31	61	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.

Table 12 (cont.): Alternative F Silvicultural Prescription Description

Unit	Acres	Logging System	Silvicultural Prescription	Comments
32	25	H	Clearcut (H, SP, P)	Plant a component of northern red oak and disease-resistant American chestnut.
33	19	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
34	25	H	Two-Age (H, SP, VC)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
36	20	C	Clearcut (Rx Fire, SP)	Prescribed burn to enhance oak regeneration.
45	58	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
46	60	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
47	24	H	Thinning	Retain 90-120 square feet of BA/ac (about 80-150 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
49	25	H	Two-Age (Rx Fire, SP)	Prescribed burn to enhance oak regeneration. Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
50	13	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
51	19	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
52	25	H	Clearcut (H, SP, VC)	No additional comments.
53	17	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
54	29	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
55	16	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
56	12	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
57	16	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
58	25	H	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
59	12	H	Thinning	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
63	12	C	Clearcut (Rx Fire, SP, P)	Prescribed burn to enhance oak regeneration. Plant a component of northern red oak and disease-resistant American chestnut.
64	8	C	Two-Age (Rx Fire, SP, VC)	Prescribed burn to enhance oak regeneration. Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.
65	60	H	Thinning- PC	Retain 60-90 square feet of BA/ac (about 50-120 trees/acre of 6"-22" dbh trees) of primarily mast producing species with scattered patch cuts of varying size (≈0.125 to 0.5 acres each).
67	27	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
68	107	H	Thinning	Retain 80-100 square feet of BA/ac (about 60-130 trees/acre of 6" to 22" dbh trees) of primarily mast-producing species.
69	25	H	Clearcut (Rx Fire, SP)	Prescribed burn to enhance oak regeneration.
70	14	H	Two-Age (SP)	Retain 15-20 square feet of BA/ac (about 10-30 trees/acre) of good quality 8" - 16" dbh trees.

BA = basal area

dbh = diameter at breast height

H = herbicide use

P = planting

Rx Fire = prescribed fire

SP = site preparation

OSR = overstory removal

VC = vine control

PC = Patch Cut